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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,631	09/16/2003	Daniel M. Joffe	72182CIP3	1917
27975	7590 05/03/2005		EXAM	INER
ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST P.A.			NGUYEN, DUC MINH	
1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE P.O. BOX 3791			ART UNIT	PAPER NUMBER
	FL 32802-3791		2643	
			DATE MAN ED 05/02/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	•			
		10/663,631	JOFFE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Duc Nguyen	2643				
Period fo	The MAILING DATE of this commun	ication appears on the cover shee	t with the correspondence address	/			
A SH THE - Exte after - If the - If NC - Failt Any earn	IORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this comme period for reply specified above is less than thirty (3) of period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months a led patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, however, ma nunication. io) days, a reply within the statutory minimum of attutory period will apply and will expire SIX (6) is will, by statute, cause the application to becom	y a reply be timely filed f thirty (30) days will be considered timely. MONTHS from the mailing date of this communic e ABANDONED (35 U.S.C. § 133).	cation.			
Status							
1)	Responsive to communication(s) file	ed on					
2a)□	This action is FINAL .	2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) <u>2-5,7-9 and 11-13</u> is/are ob Claim(s) are subject to restrict	re withdrawn from consideration.					
Applicat	ion Papers						
9)[The specification is objected to by the	e Examiner.					
10)	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any object	= ' '	•				
11)	Replacement drawing sheet(s) including The oath or declaration is objected to						
		by the Examiner. Note the attac	ned Office Action of form PTO-152	۷.			
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim ☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority		C. § 119(a)-(d) or (f).				
	2. Certified copies of the priority		n Application No				
	3. Copies of the certified copies)			
	application from the Internatio	nal Bureau (PCT Rule 17.2(a)).					
* 5	See the attached detailed Office actio	n for a list of the certified copies r	not received.				
A4a-b-	4(a)	,					
Attachmen 1) Notice	t(s) e of References Cited (PTO-892)	A) Intervie	ew Summary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (P	TO-948) Paper I	No(s)/Mail Date				
	mation Disclosure Statement(s) (PTO-1449 or or No(s)/Mail Date	PTO/SB/08) 5) Notice 6) Other:	of Informal Patent Application (PTO-152) 				

Application/Control Number: 10/663,631

Art Unit: 2643

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bliven et al (5,111,497) in view of Furse (6,868,357).

Consider claims 1, 6, 10. Bliven teaches a method of determining the location of a fault along a wire-line (column(s) 3, line(s) 29-62), serving digital subscriber equipment at a location remote (102 in associated with 108) with respect to a central office facility (112), the location of the fault being determined relative to a line card (line card LC 104 in associated with master control MC 418, fig(s). 4a) installed in the central office facility, the method comprising applying a line card electrical stimulus to the wire-line from the central office (e.g., transmitting digital signal over the twisted pair to the remote terminal; column(s) 3, line(s) 55 to column(s) 4, line(s) 2; column(s) 10, line(s) 32-65); at the line card, measuring a response of the wire-line to the electrical stimulus (e.g., means for evaluating a returned amount of noise or reflected signal so as to evaluate the function of the line card, the twisted pair and/or remote terminal; column(s) 3, line(s) 55-62) and generating an output from which the distance from the line card to the fault can be determined (column(s) 13, line(s) 23-30, line(s) 51-56; column(s) 15, line(s) 19-47; column(s) 20, line(s) 61 to column(s) 21, line(s) 4; column(s) 25, line(s) 65 to column(s) 28, line(s) 32), and processing the output generates by the line card to determine in which portion of

Art Unit: 2643

the wire-line the fault is located (column(s) 13, line(s) 23-30, line(s) 51-56; column(s) 15, line(s) 19-47; column(s) 20, line(s) 61 to column(s) 21, line(s) 4; column(s) 25, line(s) 65 to column(s) 28, line(s) 32).

Bliven does not teach measuring capacitance parameters of the wire-line in response to the electrical stimulus, and determining from the measured capacitance meters the distance from the line card to the open fault.

Furse teaches measuring capacitance parameters of the wire-line in response to the electrical stimulus, and determining from the measured capacitance parameters the distance from the line card to the open fault (see the entire abstract; column(s) 1, line(s) 18-29, line(s) 44-53; column(s) 2, line(s) 20-32; column(s) 3, line(s) 20-36) for the purposes of providing a FDR cable testing system that would enable detection of faults that are more difficult to detect than simple open and short circuits, namely cable fraying, wherein the fray may be shorted to ground or open to air (column(s) 2, line(s) 42-46).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings of Furse into the teachings of Bliven for the purposes mentioned above.

Allowable Subject Matter

3. Claims 2-5, 7-9, 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Nguyen whose telephone number is (571)272-7503. The examiner can normally be reached on 7:00AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kuntz Curtis can be reached on 571-272-7499. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Duc Nguyen Primary Examiner Art Unit 2643

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Page 4

4/21/05